IN THE SPECIFICATION:

Please substitute the attached sections or paragraphs of pages 9, 10, 11 and 12 for the relevant sections or paragraphs of pages 9, 10, 11 and 12 of record.

Section 4 of Page 9 of Specification:

1.1.1) Start loop for the attenuator element (k)

$$\mu_{a(i;j;k)} = [\sigma a_{\mathsf{PE}(i,j,k)} \ + \sigma a_{\mathsf{PP}(i,j,k)} + \mathsf{Z}_{(k)} x \sigma a_{\mathsf{C}(i,j,k)}] x \rho_{(k)} x \mathsf{Av} / \mathsf{A}_{(k)}$$

where: $\sigma a_{PE(i,j,k)}$ = effective photoelectric absorption cross-section

σa $_{C(i,j,k)}$ = Compton effective absorption cross-section

Section 2 of Page 10 of Specification:

$$\mu_{a}^{\text{(NaI)}} = [\sigma a^{\text{(NaI)}} + Z_{\text{(NaI)}} X \sigma a^{\text{(NaI)}}] X \xrightarrow{\text{Av}} X \rho(\text{NaI})$$

$$\underline{\text{(i,j)}} \qquad PE(j) \qquad C(j) \qquad A_{\text{(NaI)}}$$

Section 2 of Page 11 of Specification

$$\sigma dif_{C(j')} \ (NaI) \ x \ z_{(NaI)} \ x \ Final \ flux_{(i,j',k)} \ x \ Av \ x_{\rho(NaI)} \ x \\ \hline \overline{A_{(NaI)}}$$

Section 2 of Page 12 of Specification

$$= \sigma dif_{C(j'')} (NaI)xZ_{(NaI)} x final flux_{(i,j,k)} x Av x\rho_{(NaI)} x X_{(NaI)}$$

$$\overline{A_{(NaI)}}$$

where: $\sigma dif_{C(j^n)}$ (Nai) = effective Compton front scattering cross-section

Section 5 of Page 12 of Specification

$$= \sigma dif_{C(j''')} (NaI)xZ_{(NaI)} x final flux_{(i,j,k)} x Av x \underline{\varrho}_{(NaI)} x X_{(NaI)}$$

$$\overline{A_{(NaI)}}$$

where: $\sigma dif_{C(j^{**})} = effective Compton background scattering cross-section.$